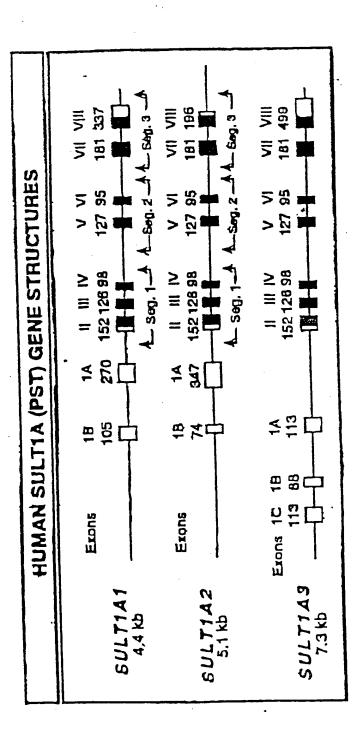


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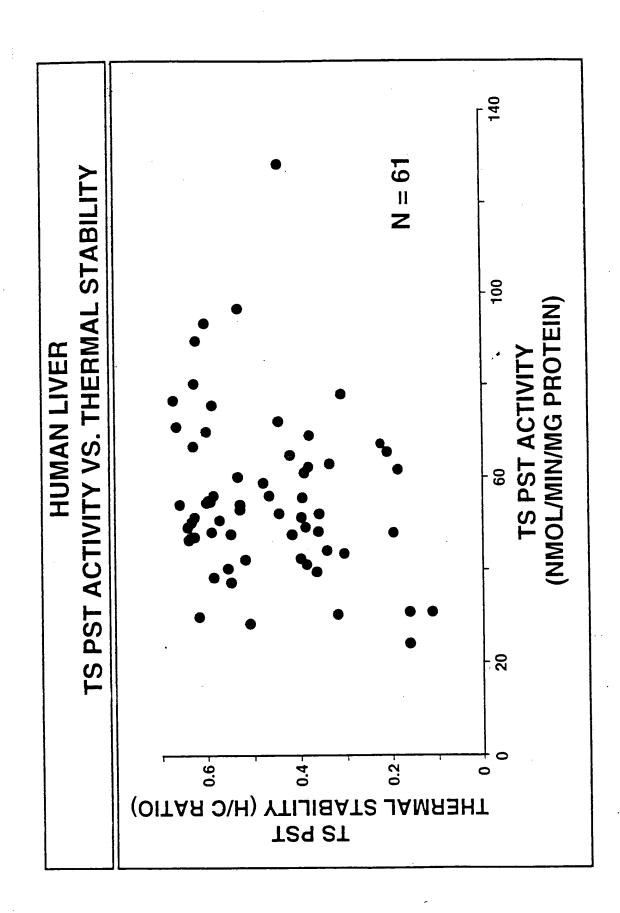
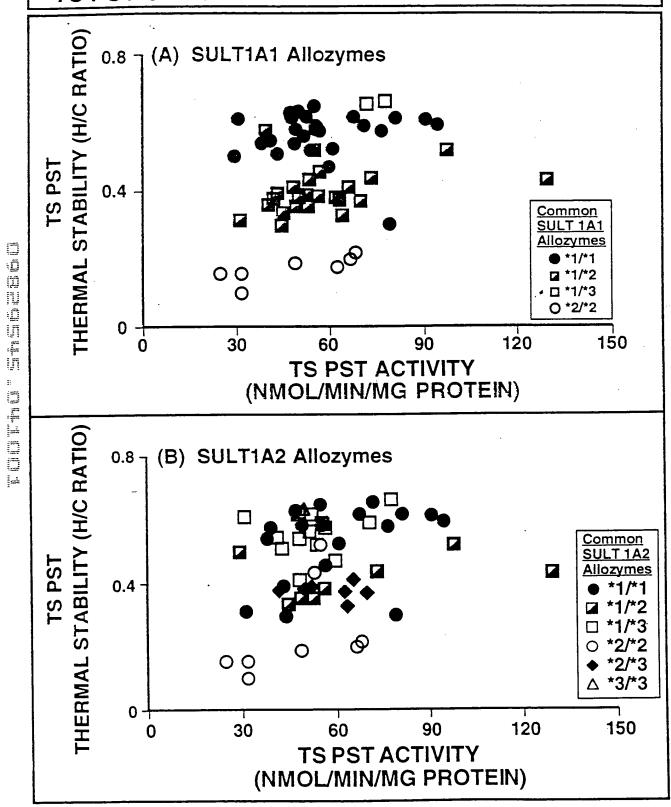


FIG. 3

HUMAN LIVER TS PST GENOTYPE-PHENOTYPE CORRELATION



HUMAN SULT1A1 GENE SEQUENCE

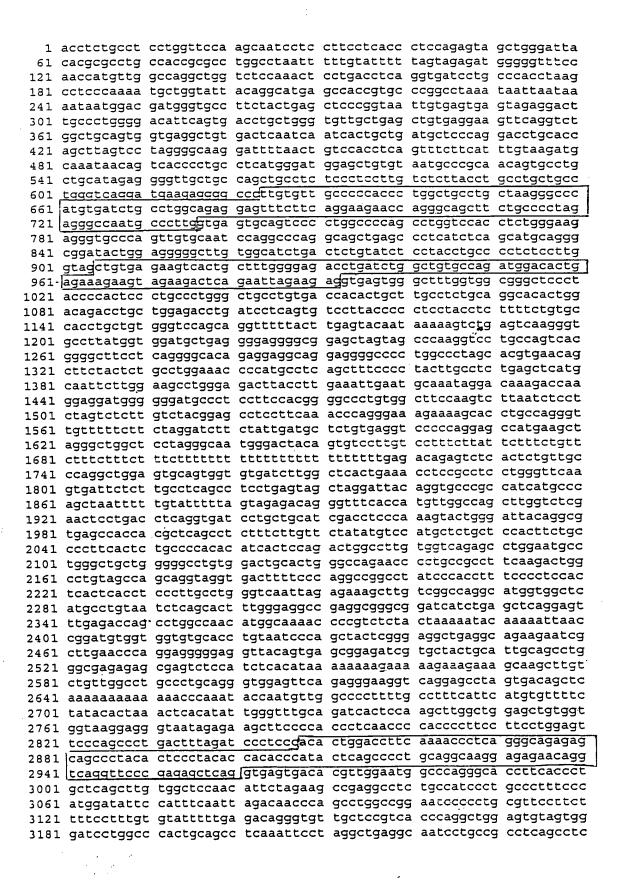
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Figure 1. SULTIAL gene sequence. Exam sequence is shown in uppercase, while intron. S'-flanking region and 3'-flanking region are region sequence is in lowercase. The 'ATC' cranslation initiation coden and the "TGA" translation termination coden are underlined. Amino acid sequence encoded by the gene is listed in single-letter code beneath the nucleocide sequence.

HUMAN SULT1A2 GENE SEQUENCE

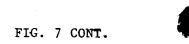
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\$72 672 772 972 972 1075 1172 1272 1372 1472 1473 1473 1473 2072 2172 2272 2172	COMMINISTING MAMERIACO MOCCOCACON CTCCTAMAN AGAGAGAC CONTRACTO CTCCCACAC CTCCACACAC AGAGAGACA SABACACACACACACACACACACACACACACACACACACA	EXON VI

Cimire 2 SULTIAN dens sequence. Exon sequence is shown in uppercase, while intron, 5 -flanking region and 1 -flank





3241 ctgagtagct ggggttacaa gagcaagcca ccacacccag ctaattttga aaaatatttt 3301 ttgtagagga gaggtettge tttgttgtee aggttggtet caaacteeag ggeteaaggg 3361 atoctttccc gttggcctcc caaggctctg ggattacagg cgggagtcac cctgcctggg 3421 cocctcottt tgatgagtca tcagttttca ttcccgcacg aggctctagc ccctggtacc 3481 agettagttg etcaatggge tgtgtttgtt etggageeca gatggaetgt ggeeaggeaa 3541 gtggatcaca gacctggccg gcctgggagg tttccacatg tgaggggcat gaggggggct 3601 caaggagggg agcatcgggg agaggagcgc actgggtgga ggctgggggt cccagcagga 3661 aatggtgaga caaagggcgc tggctggcag ggagacagca caggcaggcc ctagagcttc 3721 ctcagcacag ctggactctc ctggagacct tcacacaccc tgatatctgg gccccgcgct 3781 acgagggtgc tttcactggt ctgcactatg ccccaggccc tgggattttg aacagctctg 3841 caggtgactg aaaggtgcgg ccaggctggg gaacgacctg gtttcagccc cagccccgcc 3901 actgactgac tttgtgagtg cgggcaagtc actcagcctc cctaggcctc agtgacttcc 3961 ctgaaagcaa aaactctgca aaggggcagc tgggtgctgg ctcacacctg taatcccagc 4021 actttgggag gctgaggtag acaaatcact tgaggccagg agttctagac cagcctggcc 4081 aacatggtga aaccccatct ctactaaaga aaaaaaaaa ttagctgagc atggttgtac 4141 atgcttgtaa teccagetae ttgggatgee gaggegggag gattgettga acceaagagg 4201 tggagtttgc agtgagctga gattgtgcca cactgcactc cagcttgggt gagagtgaga 4261 ctccatctca aaaaaaaaaa aaaaaagaga gaatcccact ttcttgctgt tgtgatggtg 4321 gtaagggaac gggcctggct ctggcccctg atgcaggaac atggagctga tccaggacac 4381 ctcccgcccg ccactggagt acgtgaaggg ggtcccgctc atcaagtact ttgcagaggc 4441 actggggccc ctgcagagct tccaagcccg acctgatgac ctgctcatca acacctaccc 4501 caagtetggt aagtgaggag ggccacccac ceteteccag geggeagtee ceacettggt 4561 cagcaaggte gtgeceteag cetgeteace tectatetee etecetetee aggeaceace 4621 tgggtgagcc agatactgga catgatctac cagggcggcg acctagagaa gtgtaaccgg 4681 geteceatet acgtacgggt gecetteett gaggteaatg atceagggga acceteaggt 4741 gcatggctgg gtcctggggg taagggaagt ggaggaagac agggctgggg cttcagctca 4801 ccagacette ectgacecae tacteagge tggagaetet gaaagacaea eegeeeceae 4861 ggctcatcaa gtcacacctg cccctggctc tgctccctca gactctgttg gatcagaagg 4921 tcaacggtgag gccggqctca atggttcaca cctgtcatcc cagtttgaga ctgaggaggg 4981 aggatecett gaaggegaga gatggagace ageetgggea acattgetgt agagatgaca 5041 teccatetet acaaaaataa aattaacaac etggtatggt ggcatagaet gtteccagtt 5101 acttaggagg ctcagcgggg aggactgttt atgcaaatag gaagctgcaa tgagccctga 5161 tgatcetget getgeactee ageetgggea acacageaaa accateteta egaaaaaaaa 5221 agttcccact gactggcaag gaaagccagg aaggggggct caggtgccct ctcagccatg 5281 tacctgttct tctggaaggg cctcctcgct tctgccaggc tcatcacatc tttttttt 5341 ttgagacaga gtcttgctct gtcaccctgg ctggagtgca gtggcatgat ctcagctcac 5401 tgcaacetee geeteecag ttcaagtgat teteetgeet cageeteetg agtagetggg 5461 attacaggog tgtgctacca caccoggota atttttgtat totttttagt agagacgggg 5521 tttcaccatg ttggtcaagt ggatctcaaa ctcttgacct tgtgatcctc ctgcctcgac 5581 ctcacaaagt gctggaatta caggcgtgag ccaccgcgcc tggccctttt tttttttgag 5641 acagtttcac tettgttgcc gaggetagag egeaategtg tgateteggt teaetgeaae 5701 caccgcctcc tgggttcaag caattctcct gcttcagcct cccaaggagc tgggattaca 5761 ggtacctgcc accacgcccg gctaattttg tatttttagt agagatgggg tttcaccatg 5821 ttggtcaggc tggtcttgaa ctcctgacct caggtgatct ggcaccttgg cctcccaaag 5881 tgccgggatt agaggcatga gccaccacgc ccagcettca tcacatettg agagaggaca 5941 ctgtctgcct cttgctctga tgagggtctg atgcaaagga tagtgagtct ctacagtgca 6001 cacttaagaa aggcagcatg tgggtgctca caggtcaggc ggaggagggg gagctggtgg 6061 ggaccaggca tgccttgctc cagatcagga tatgatggca ttggtgcaga ttatattagt 6121 atagaatatg gtctcaggaa ccaggcagga ctttggcttc cgagcagggt tcagatccca 6181 gcttggccct acctgtgcag tgagatctca agcaagtcag cctctaagcc tcaggttcct 6241 cetttgecag ttcaacagat gagetggeet ggggtggget gtgtggtgat ggtgetgggg 6301 ctgggtcctc tgcccctgca ggtggtctat gttgcccgaa acccaaagga cgtggcggtc 6361 tectactace atttecaceg tatggaaaag gegeaceetg ageetgggae etgggaeage 6421 ttcctggaaa agttcatggc tggagaaggt gggcttgact ggaggaagga gggtgtgaag 6481 ccgagggtg gtggctataa cgtacagcaa ccctgtgtcg gtgccccctg cccgcttctc 6541 tagtgtccta cgggtcctgg taccagcacg tgcaggagtg gtgggagctg agccgcaccc 6601 accetgitet etacetette tatgaagafa tgaaggaggi gagacegaet gigatgette



6661	ccccatgtg	acacctgggg	gcaggcacct	cacagggacc	caccaaggcc	acccagcccc
6721	gtccctgggc	ggctcccaca	gcaagcccgg	attccccatc	ctacctccct	ggcccaggcc
	ccccactgc					
						tcaccaaagg ·
6901	gtgtgccacc	cagggccaca	gtcatggaag	aagaccatcc	cggtcctcac	ccataggcgc
6961	caagccctgt	tcatgatggg	atcacagggc	agagatcaat	tcattttact	cca_agacta
7021	gggccccagg	ggttgaggct	ctttggggtt	tctaggggaa	gtggccagat	cccctctgag
						gctcagaacc
						gaggagacca
						atgaccaact
						aggaaaggtg
	ggtgctggcc					
7381	gcacttgggg	cctcccctgg	gatgagactc	cagctttgct	ccctgccttc	ctccccagg
	catggctggg					
7501		aagatggcag				
7561	cctggagtca	ctgcagaggg	agtgtgcgaa	tctaccctga	ccaatgggct	caagaataaa
7621	gtatgatttt	tgagtcaggc	acagtggctc	atgtctgcaa	tcccagcgat	ttgggaggtt
7681	gagctggtag	gatcacaata	ggccacgaat	ttgagaccag	cctggtaaaa	tagtgagacc
7741	tcatctctac	aaagatgtaa	aaaaattagc	cacatgtgct	ggcacttacc	tgtagtccca
7801	gctacttggg	aagcagaggc	tggaggatca	tttcagccca	ggaggttgtg	gatacagtga
7861	gttatgacat	gcccattcac	tacagcctgg	atgacaagca	agaccctccc	tccaaagaaa
7921	ataaagctca	attaaaataa	aatatgattt	gtgttcatgt	agagcctgta	ttggaaagga
7981	agagaaactc	tgagctgaaa	gagtgaatgc	ccggtggggc	cacatatggt	cacctctccc
8041	ccagccttca	gctccccagg	tcaccatatc	tggggagggg	agaagggttt	ggagaagtaa
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8161	tgccccaaga	tggtggagga	cgtcgagtcc	gccgggcagc	gtcacttttt	cttgggctcc
8221	ttagaagcta	ccaggtacct	ctgggccaca	ctgagatgag	gggagtagcc	gcctgcatag
8281	gaggtgtctt	caaacaggat	agtatagtcc	ctcctggggg	ttgtgggggt	aggtggccaa
8341	ggaagggtag	aggagcaagc	ccccggggct	ggttgtcaac	tcactttgtt	ggctggaatt
8401	ggttgtaact	tgaccacctc	gggcaggatc	ccactgctca	tccccaa	

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